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File: JPAB

Apr 24, 1992

PUB-NO: JP404124235A

DOCUMENT-IDENTIFIER: JP 04124235 A

TITLE: MANUFACTURE OF GRAPHITE-CONTAINING COPPER OR COPPER ALLOY

PUBN-DATE: April 24, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

SATO, RYODA

INT-CL (IPC): C22C 1/10

ABSTRACT:

PURPOSE: To improve the high temp. strength and lubricity by adding graphite to a copper material, melting it under heating to a specified high temp. to melt carbon and precipitating and dispersing the graphite into the metallic structure at the time of cooling and solidifying.

CONSTITUTION: Graphite is added to a copper or copper alloy material 12, and this mixture is melted under heating to the high temp. of $\geq 2000^{\circ}\text{C}$ by using graphite electrodes 1 to 3A in a crucible 11 to melt carbon in the copper or copper alloy. Then, at the time of cooling and solidifying, the graphite is precipitated and dispersed into the metallic structure. Each phase voltage of polyphase AC power is impressed on plural electrodes respectively to generate plural arc discharge, and nontransferrential plasma arcs are injected from the tip of the electrodes. In this way, the graphite-contg. copper or copper alloy usable as a wear resistant member or an electrode for resistance welding can be manufactured.

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